

=> d his

(FILE 'HOME' ENTERED AT 18:53:34 ON 09 AUG 2001)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH' ENTERED AT 18:54:20 ON 09 AUG 2001

L1 1145 S ANGIOSTATIN
L2 30070 S PHOSPHOROTHIOATE OR NAC OR AMIFOSTINE
L3 314427 S METASTAS?
L4 1 S L1 AND L2 AND L3

=> d bib ab 14

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS
AN 2000:688056 CAPLUS
DN 133:247270
TI **Phosphorothioates** and **phosphorothioate** metabolites for
protection against tumor **metastasis** formation
IN Grdina, David J.; Milas, Luka
PA Arch Development Corp., USA; Board of Regents, the University of Texas
System
SO PCT Int. Appl., 57 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|--|------|----------|-----------------|----------|
| | ----- | --- | ----- | ----- | ----- |
| PI | WO 2000056299 | A2 | 20000928 | WO 2000-US6653 | 20000314 |
| | WO 2000056299 | A3 | 20010118 | | |
| | W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| | RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |

PRAI US 1999-125605 P 19990319
US 2000-523886 A1 20000313

AB Methods and pharmaceuticals are provided for inhibiting or preventing **metastasis** formation in animals, including humans, having primary tumors, through the administration of **phosphorothioates** including their thiol and disulfide metabolites. These compds. stimulate **angiostatin** levels, inhibit matrix metalloproteinases, and stimulate manganese superoxide dismutase. **Phosphorothioates**, e.g. **amifostine**, can be administered as a combination therapy with traditional cancer therapies, including chemotherapy, radiotherapy, surgery, immunotherapy, hormone therapy, and gene therapy. Inhibition or prevention of **metastasis** by **phosphorothioates** is independent of tumor type, including adenocarcinomas and sarcomas.

=>

- Weichselbaum, Ralph R.; Hunter, Nancy; Milas, Luka
 TI Prevention of spontaneous **metastases** formation in murine tumor models by **Amifostine**.
 SO Proceedings of the American Association for Cancer Research Annual Meeting, (March, 2000) No. 41, pp. 485.
 Meeting Info.: 91st Annual Meeting of the American Association for Cancer Research. San Francisco, California, USA April 01-05, 2000
 ISSN: 0197-016X.
- L4 ANSWER 7 OF 44 BIOSIS COPYRIGHT 2001 BIOSIS
 AU Micke, O. (1); Schaefer, U. (1); Horn, K. (1); Hampel, G. (1); Willich, N.
 (1)
 TI High-dose re-irradiation with concomitant application of Ethyol (**Amifostine**) in recurrent pelvic tumors: Results from a prospective phase II study.
 SO Radiotherapy & Oncology, (September, 2000) Vol. 56, No. Supplement 1, pp. S177. print.
 Meeting Info.: 19th Annual Meeting of the European Society for Therapeutic Radiology and Oncology Istanbul, Turkey September 19-23, 2000
 ISSN: 0167-8140.
- L4 ANSWER 8 OF 44 BIOSIS COPYRIGHT 2001 BIOSIS
 AU Vujaskovic, Z. (1); Feng, Q. F. (1); Brizel, D. M. (1); Anscher, M. S. (1)
 TI Assessment of the protective effect of **amifostine** on radiation induced pulmonary toxicity.
 SO International Journal of Radiation Oncology Biology Physics, (2000) Vol. 48, No. 3 Supplement, pp. 163-164. print.
 Meeting Info.: 42nd Annual Meeting of the American Society for Therapeutic Radiology and Oncology Boston, Massachusetts, USA October 22-26, 2000
 American Society for Therapeutic Radiology and Oncology . ISSN: 0360-3016.
- L4 ANSWER 9 OF 44 BIOSIS COPYRIGHT 2001 BIOSIS
 AU Ozyar, E. (1); Selek, U. (1); Akyol, F. H. (1); Atahan, I. L. (1)
 TI Cytoprotection with **Amifostine** (AMF) during radiotherapy of head and neck tumors.
 SO Radiotherapy & Oncology, (September, 2000) Vol. 56, No. Supplement 1, pp. S156. print.
 Meeting Info.: 19th Annual Meeting of the European Society for Therapeutic Radiology and Oncology Istanbul, Turkey September 19-23, 2000
 ISSN: 0167-8140.
- L4 ANSWER 10 OF 44 BIOSIS COPYRIGHT 2001 BIOSIS
 AU Ozsahin, M. (1); Kutter, J.; Martinet, S. (1); Zouhair, A. (1); Pasche, P.; Stupp, R.
 TI Promising results using weekly concomitant boost accelerated radiotherapy and concomitant full-dose chemotherapy in locally advanced squamous-cell carcinoma of the head and neck (SCCHN).
 SO Radiotherapy & Oncology, (September, 2000) Vol. 56, No. Supplement 1, pp. S68. print.
 Meeting Info.: 19th Annual Meeting of the European Society for Therapeutic Radiology and Oncology Istanbul, Turkey September 19-23, 2000
 ISSN: 0167-8140.

L4 ANSWER 11 OF 44 MEDLINE
 AU Movsas B
 TI Innovative treatment strategies in locally advanced and/or unresectable non-small cell lung cancer.
 SO CANCER CONTROL, (2000 Jan-Feb) 7 (1) 25-34. Ref: 71
 Journal code: DLG; 9438457. ISSN: 1073-2748.

L4 ANSWER 12 OF 44 CAPLUS COPYRIGHT 2001 ACS
 IN Dack, Kevin Neil; Whitlock, Gavin Alistair
 TI Preparation of N-hydroxytetrahydropyridylsulfonylacetamides and related compounds as matrix metalloprotease inhibitors.
 SO PCT Int. Appl., 149 pp.
 CODEN: PIXXD2

L4 ANSWER 13 OF 44 CAPLUS COPYRIGHT 2001 ACS
 AU Gelmon, K.; Eisenhauer, E.; Bryce, C.; Tolcher, A.; Mayer, L.; Tomlinson, E.; Zee, B.; Blackstein, M.; Tomiak, E.; Yau, J.; Batist, G.; Fisher, B.; Iglesias, J.
 TI Randomized phase II study of high-dose paclitaxel with or without **amifostine** in patients with metastatic breast cancer
 SO J. Clin. Oncol. (1999), 17(10), 3038-3047
 CODEN: JCONDN; ISSN: 0732-183X

L4 ANSWER 14 OF 44 CAPLUS COPYRIGHT 2001 ACS
 IN Hanaoka, Miyoji; Ekimoto, Hisao; Kobayashi, Fumiko; Irie, Yukio; Takahashi, Katsutoshi; Suzuki, Masanobu; Nakanishi, Takeshi; Kogawa, Osamu; Ishikawa, Keizou
 TI Preparation of benzo[c]phenanthridinium salts as antitumor agents.
 SO U.S., 15 pp. Cont.-in-part of U.S. Ser. No. 784,699, abandoned.
 CODEN: USXXAM

L4 ANSWER 15 OF 44 MEDLINE DUPLICATE 2
 AU Mohr P; Makki A; Breitbart E; Schadendorf D
 TI Combined treatment of stage IV melanoma patients with **amifostine** and fotemustine--a pilot study.
 SO MELANOMA RESEARCH, (1998 Apr) 8 (2) 166-9.
 Journal code: BJR; 9109623. ISSN: 0960-8931.

L4 ANSWER 16 OF 44 MEDLINE
 AU Kusenda Z; Kerger J; Awada A; Geurs F; Van Vreckem A; Habboubi N; Piccart M J
 TI Mitomycin C and vinblastine in combination with **amifostine** in metastatic breast cancer. A feasibility study of the EORTC--Investigational Drug Branch for Breast Cancer (IDBBC).
 SO SUPPORTIVE CARE IN CANCER, (1997 Sep) 5 (5) 414-6.
 Journal code: BIL; 9302957. ISSN: 0941-4355.

L4 ANSWER 17 OF 44 MEDLINE
 AU Ramnath N; LoRusso P; Simon M; Martino S
 TI Phase II evaluation of cisplatin and **WR2721** for refractory metastatic breast cancer.
 SO AMERICAN JOURNAL OF CLINICAL ONCOLOGY, (1997 Aug) 20 (4) 368-72.
 Journal code: 3EZ; 8207754. ISSN: 0277-3732.

L4 ANSWER 18 OF 44 CAPLUS COPYRIGHT 2001 ACS
 AU Piccart, Martine J.; Di Leo, Angelo
 TI Future perspectives of docetaxel (Taxotere) in front-line therapy
 SO Semin. Oncol. (1997), 24(4, Suppl. 10), S27-S33

CODEN: SOLGAV; ISSN: 0093-7754

- L4 ANSWER 19 OF 44 MEDLINE
AU Piccart M J; Di Leo A
TI Future perspectives of docetaxel (Taxotere) in front-line therapy.
SO SEMINARS IN ONCOLOGY, (1997 Aug) 24 (4 Suppl 10) S10-27-S10-33. Ref: 41
Journal code: UN5; 0420432. ISSN: 0093-7754.
- L4 ANSWER 20 OF 44 CAPLUS COPYRIGHT 2001 ACS
AU Schiller, Joan H.
TI High-dose cisplatin and vinblastine plus **amifostine** for
metastatic non-small cell lung cancer
SO Semin. Oncol. (1996), 23(4, Suppl. 8), 78-82
CODEN: SOLGAV; ISSN: 0093-7754
- L4 ANSWER 21 OF 44 CAPLUS COPYRIGHT 2001 ACS
IN Ikeda, Yoshiharu; Ueki, Yasuyuki; Kishimoto, Hisakazu; Nishihara, Toshio;
Kamikawa, Yumiko
TI Preparation of peptides containing 2,3-diaminopropionic acid derivatives
having selective affinity to cell adhesion activating protein receptors
SO PCT Int. Appl., 231 pp.
CODEN: PIXXD2
- L4 ANSWER 22 OF 44 CAPLUS COPYRIGHT 2001 ACS
IN Sato, Masakazu; Manaka, Akira; Takahashi, Keiko; Kawashima, Yutaka;
Hatayama, Katsuo
TI Preparation of thiazoline derivatives with fibrinogen receptor antagonism
and cell adhesion factor antagonism
SO PCT Int. Appl., 37 pp.
CODEN: PIXXD2
- L4 ANSWER 23 OF 44 MEDLINE
AU McDonald S; Meyerowitz C; Smudzin T; Rubin P
TI Preliminary results of a pilot study using WR-2721 before fractionated
irradiation of the head and neck to reduce salivary gland dysfunction.
SO INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY, BIOLOGY, PHYSICS, (1994 Jul
1) 29 (4) 747-54.
Journal code: G97; 7603616. ISSN: 0360-3016.
- L4 ANSWER 24 OF 44 CAPLUS COPYRIGHT 2001 ACS
IN Nishikawa, Naoyuki; Orikasa, Atsushi; Komazawa, Hiroyuki; Kojima,
Masayoshi; Saiki, Ikuo; Azuma, Ichiro
TI Preparation of amino acid and peptide derivatives as cancer
metastasis inhibitors
SO PCT Int. Appl., 77 pp.
CODEN: PIXXD2
- L4 ANSWER 25 OF 44 MEDLINE
AU Rivoire M
TI [Cancers of the colon and the rectum: news in 1992].
Cancers du colon et du rectum: nouveautes en 1992.
SO PATHOLOGIE BIOLOGIE, (1992 Dec) 40 (9 Pt 2) 943-8.
Journal code: OSG; 0265365. ISSN: 0369-8114.
- L4 ANSWER 26 OF 44 MEDLINE
AU Demchak P A; Mier J W; Robert N J; O'Brien K; Gould J A; Atkins M B
TI Interleukin-2 and high-dose cisplatin in patients with metastatic
melanoma: a pilot study.
SO JOURNAL OF CLINICAL ONCOLOGY, (1991 Oct) 9 (10) 1821-30.

Journal code: JCO; 8309333. ISSN: 0732-183X.

- L4 ANSWER 27 OF 44 MEDLINE
AU Buzaid A C; Murren J; Durivage H J
TI High-dose cisplatin plus WR-2721 in a split course in metastatic malignant melanoma. A phase II study.
SO AMERICAN JOURNAL OF CLINICAL ONCOLOGY, (1991 Jun) 14 (3) 203-7.
Journal code: 3EZ; 8207754. ISSN: 0277-3732.
- L4 ANSWER 28 OF 44 CAPLUS COPYRIGHT 2001 ACS
IN Ohba, Masataka; Kumagai, Hiromichi; Harie, Shunsaku; Uchida, Keiichi
TI Preparation of cyclic peptides for inhibition of cancer **metastasis** and agglutination of platelets
SO PCT Int. Appl., 51 pp.
CODEN: PIXXD2
- L4 ANSWER 29 OF 44 MEDLINE
AU Kanclerz A; Chapman J D
TI Influence of misonidazole, SR-2508, RSU-1069 and WR-2721 on spontaneous **metastases** in C57BL mice.
SO INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY, BIOLOGY, PHYSICS, (1988 Feb) 14 (2) 309-16.
Journal code: G97; 7603616. ISSN: 0360-3016.
- L4 ANSWER 30 OF 44 MEDLINE
AU Milas L; Murray D; Brock W A; Meyn R E
TI Radioprotectors in tumor radiotherapy: factors and settings determining therapeutic ratio.
SO PHARMACOLOGY AND THERAPEUTICS, (1988) 39 (1-3) 179-87. Ref: 34
Journal code: P44; 7905840. ISSN: 0163-7258.
- L4 ANSWER 31 OF 44 MEDLINE
AU Glover D; Glick J H; Weiler C; Fox K; Guerry D
TI WR-2721 and high-dose cisplatin: an active combination in the treatment of metastatic melanoma.
SO JOURNAL OF CLINICAL ONCOLOGY, (1987 Apr) 5 (4) 574-8.
Journal code: JCO; 8309333. ISSN: 0732-183X.
- L4 ANSWER 32 OF 44 MEDLINE
AU Warrell R P Jr
TI New inhibitors of osteolysis: implications for hypercalcemia and bone **metastases**.
SO JOURNAL OF CLINICAL ONCOLOGY, (1986 Aug) 4 (8) 1160-1.
Journal code: JCO; 8309333. ISSN: 0732-183X.
- L4 ANSWER 33 OF 44 MEDLINE
AU Constine L S; Zagars G; Rubin P; Kligerman M
TI Protection by WR-2721 of human bone marrow function following irradiation.
SO INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY, BIOLOGY, PHYSICS, (1986 Aug) 12 (8) 1505-8.
Journal code: G97; 7603616. ISSN: 0360-3016.
- L4 ANSWER 34 OF 44 MEDLINE
AU Byfield J E
TI Combined use of drugs and radiation in the treatment of liver **metastases**.

SO RECENT RESULTS IN CANCER RESEARCH, (1986) 100 298-306.
Journal code: R1Y; 0044671. ISSN: 0080-0015.

L4 ANSWER 35 OF 44 MEDLINE
AU Rubin P; Salazar O; Zagars G; Constine L S; Keys H; Poulter C A; Van Ess J
D
TI Systemic hemibody irradiation for overt and occult **metastases**.
SO CANCER, (1985 May 1) 55 (9 Suppl) 2210-21.
Journal code: CLZ; 0374236. ISSN: 0008-543X.

L4 ANSWER 36 OF 44 MEDLINE
AU Wist E A
TI Effect of the radioprotector WR 2721 on the response of metastatic Lewis lung carcinoma colonies to alkylating agents.
SO ACTA RADIOLOGICA. ONCOLOGY, (1985 May-Jun) 24 (3) 259-62.
Journal code: 1YL; 8209606. ISSN: 0349-652X.

L4 ANSWER 37 OF 44 MEDLINE DUPLICATE 3
AU Milas L; McBride W H; Hunter N; Ito H
TI Protection by S-2-(3-aminopropylamino)ethylphosphorothioic acid against radiation- and cyclophosphamide-induced attenuation in antitumor resistance.
SO CANCER RESEARCH, (1984 Jun) 44 (6) 2382-6.
Journal code: CNF; 2984705R. ISSN: 0008-5472.

L4 ANSWER 38 OF 44 BIOSIS COPYRIGHT 2001 BIOSIS
AU MILAS L; HUNTER N; ITO H; PETERS L J
TI EFFECT OF TUMOR TYPE SIZE AND END POINT ON TUMOR RADIOPROTECTION BY WR-2721 S-2-3 AMINOPROPYLAMINO ETHYL **PHOSPHOROTHIOIC-ACID**.
SO INT J RADIAT ONCOL BIOL PHYS, (1984) 10 (1), 41-48.
CODEN: IOBPD3. ISSN: 0360-3016.

L4 ANSWER 39 OF 44 MEDLINE DUPLICATE 4
AU Milas L; Ito H; Hunter N
TI Effect of tumor size on S-2-(3-aminopropylamino)ethylphosphorothioic acid and misonidazole alteration of tumor response to cyclophosphamide.
SO CANCER RESEARCH, (1983 Jul) 43 (7) 3050-6.
Journal code: CNF; 2984705R. ISSN: 0008-5472.

L4 ANSWER 40 OF 44 MEDLINE DUPLICATE 5
AU Milas L; Hunter N; Reid B O; Thames H D Jr
TI Protective effects of S-2-(3-aminopropylamino)ethylphosphorothioic acid against radiation damage of normal tissues and a fibrosarcoma in mice.
SO CANCER RESEARCH, (1982 May) 42 (5) 1888-97.
Journal code: CNF; 2984705R. ISSN: 0008-5472.

L4 ANSWER 41 OF 44 MEDLINE
AU Milas L; Hunter N; Reid B O
TI Protective effects of WR-2721 against radiation-induced injury of murine gut, testis, lung, and lung tumor nodules.
SO INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY, BIOLOGY, PHYSICS, (1982 Mar-Apr) 8 (3-4) 535-8.
Journal code: G97; 7603616. ISSN: 0360-3016.

L4 ANSWER 42 OF 44 BIOSIS COPYRIGHT 2001 BIOSIS
AU MILAS L; HUNTER N; ITO H
TI RADIO PROTECTION AND CHEMO PROTECTION BY WR-2721 S-2-3

AMINOPROPYLAMINOETHYL **PHOSPHOROTHIOIC-ACID** OF A MURINE
FIBRO SARCOMA GROWING IN THE LEG OR AS LUNG MICRO **METASTASES**.
SO 24TH ANNUAL MEETING OF THE AMERICAN SOCIETY OF THERAPEUTIC RADIOLOGISTS,
ORLANDO, FLA., USA, OCT. 25-29, 1982. INT J RADIAT ONCOL BIOL PHYS.
(1982)

8 (SUPPL 1), 96-97.
CODEN: IOBPD3. ISSN: 0360-3016.

L4 ANSWER 43 OF 44 MEDLINE
AU Rude J M; Mark H L
TI Sequential regional hyperthermia: a possible answer for the treatment of
cancer.
SO ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY, (1982) 157 11-22.
Journal code: 2LU; 0121103. ISSN: 0065-2598.

L4 ANSWER 44 OF 44 CAPLUS COPYRIGHT 2001 ACS
AU Ullrich, R. L.; Jernigan, M. C.; Yuhas, J. M.
TI Influence of WR-2721 on metastatic tumor spread after irradiation
SO Report (1975), CONF-751001-1, 4 pp. Avail.: NTIS
From: ERDA Res. Abstr. 1976, 1(1), Abstr. No. 00686

=>